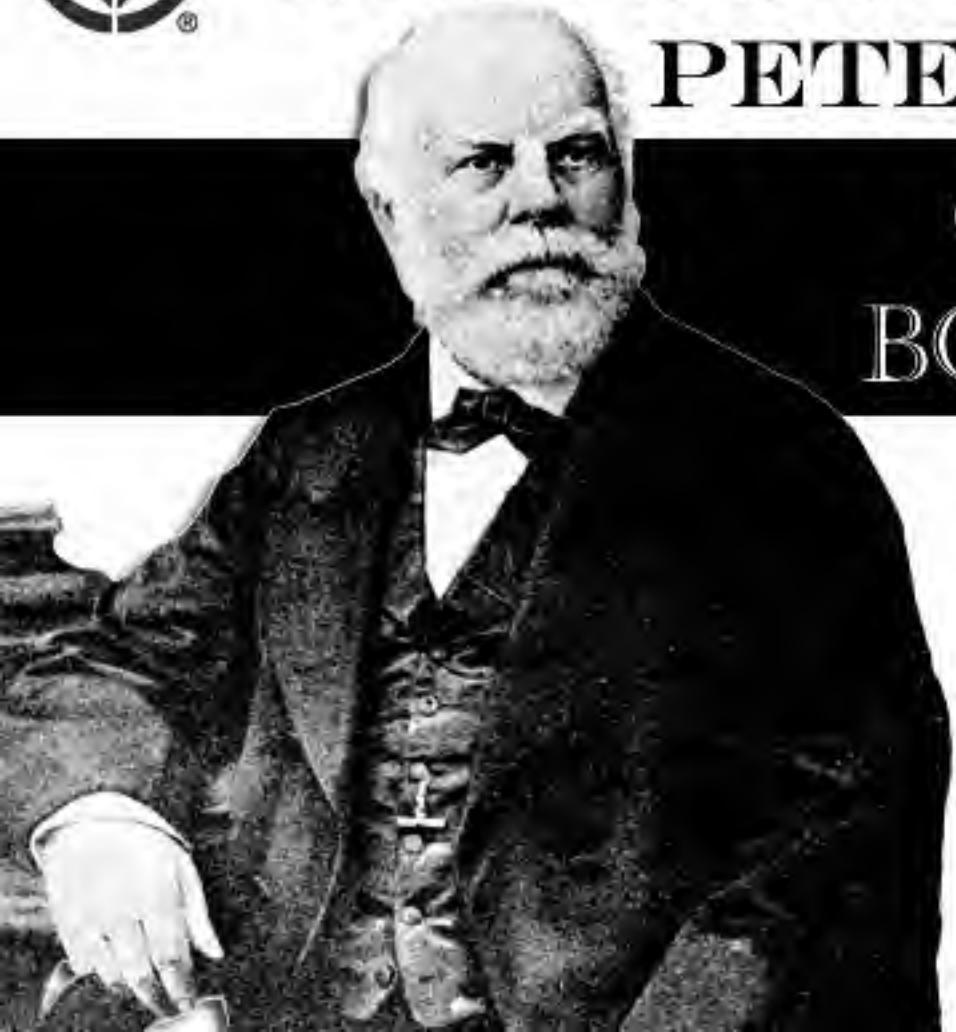




MISSOURI BOTANICAL GARDEN

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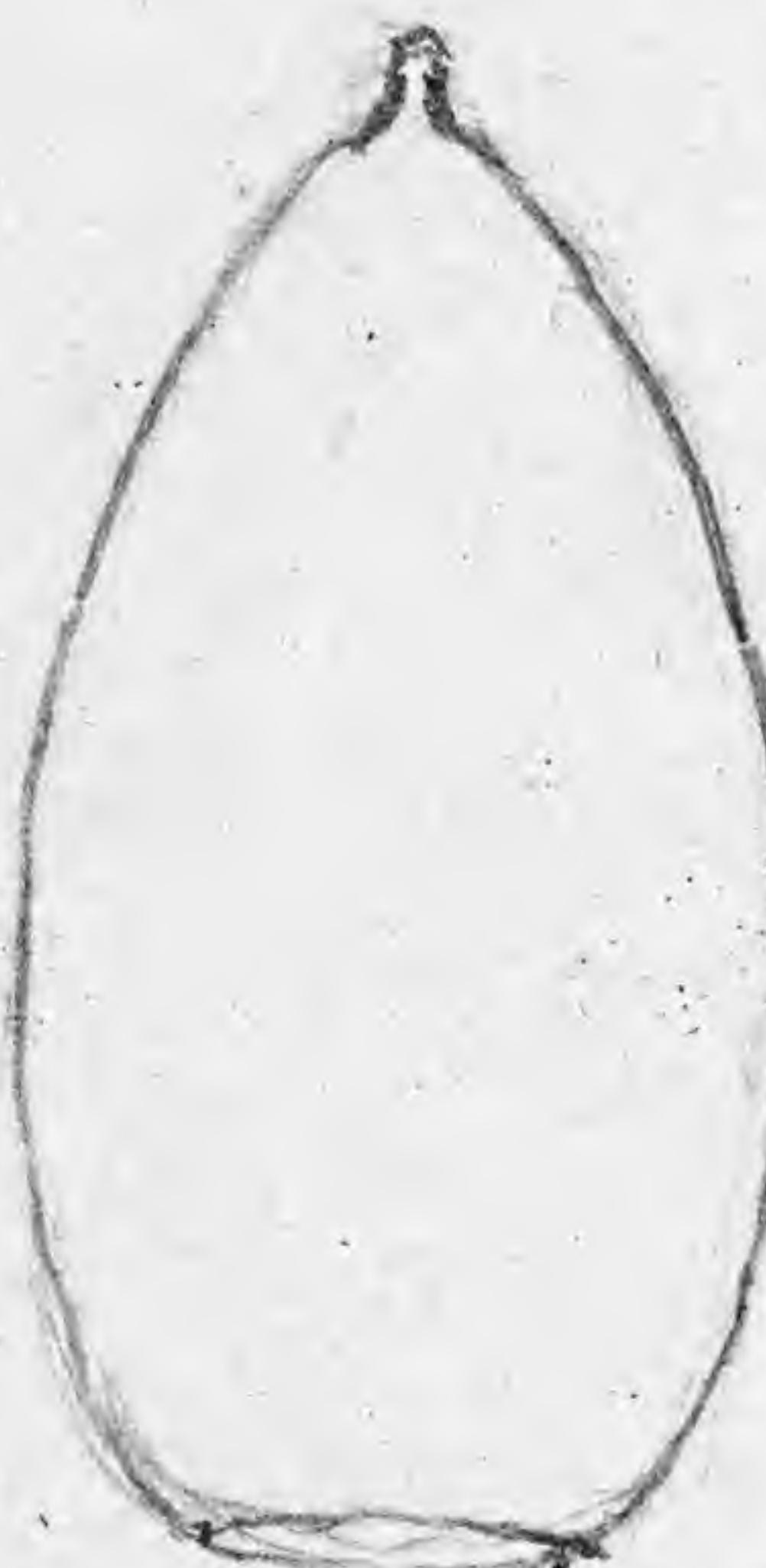
"Gymnos. lobata"

May 19 1874

Bolander, Mendocino Co 1865



inside of
cupula



diacanth



of attachment

scale



tip of a small
abortion acorn



0 1 2 3 4 5 6 7 8 9 10

cm

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STANDARD PHARMACY,

N. W. Corner Easton and Garrison Ave's.

POOLE & CO.

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GEORGE ENGELMANN PAPERS



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cm

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Quercus Cate 7
No 1465 Brown

6 Jan 1876



only two ovules
seen in worn eaten fruit

Wisconsin Dells

Wisconsin Dells



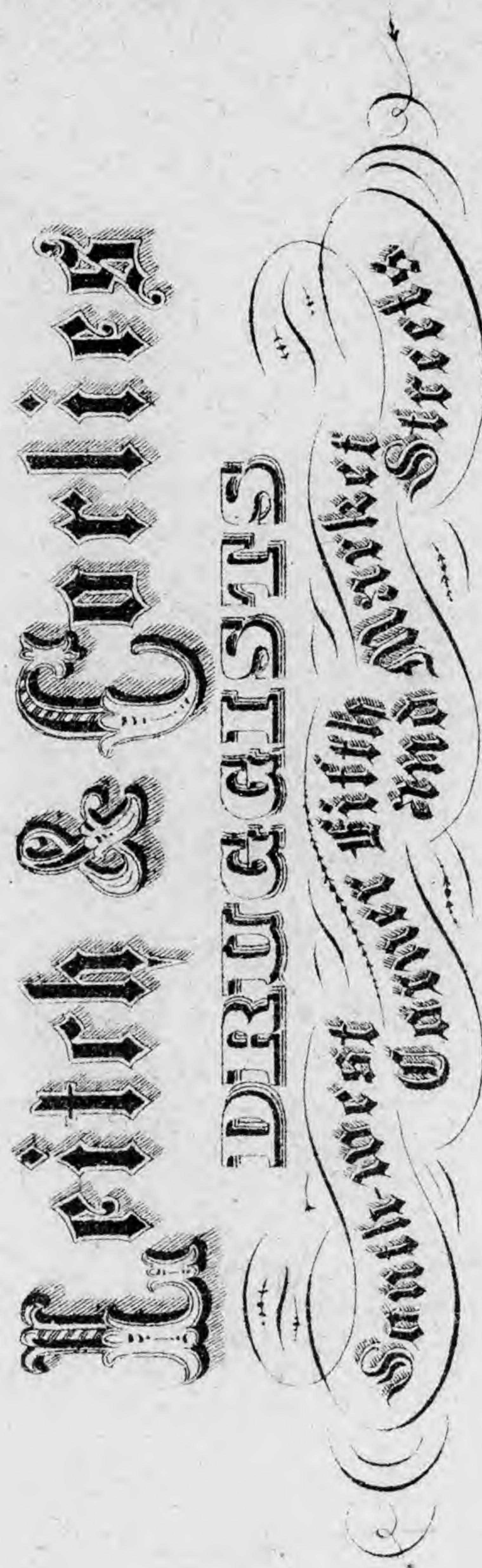
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Date

Quercus lobata

Wilk's N. S. Expt. Expt.

gr. Torrey vol XVII. Botany 1874

pl. 151

Quercus ib. pag 458 - 463



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cm

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• GEORGE ENGLEMAN,

of Garrison Avenue and Locust Street.

5993

PRESCRIPTION

CAREFULLY COMPO

BY

COPPERNICKY PHARMACEUTICAL

DAY AND NIGHT.

Stoddard Pharn

N. W. COR. EASTON & GARD

POOL & CO

MISSOURI

BOTANICAL

GEORGE

IMPORTED AND ARTIFICIAL

MINERAL, WATER

NATIVE AND IMPORTED

WINES AND LIQUORS

FOR MEDICINAL PURPOSES



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Guernsey Coats notes by Brower.

1.	Radius 16 inches	age 101 years	first 50 years 9 $\frac{1}{2}$ inches, the remainder to 1/2 as much	
2,	" 19 "	190	100 11 $\frac{1}{2}$	last 90 years 7 $\frac{1}{2}$ inch
3,	17 $\frac{1}{2}$	-112		
4,	19	115		" 40 " 4 inches
5,	23	120		" 6 " 6. (23)
6	14	103		

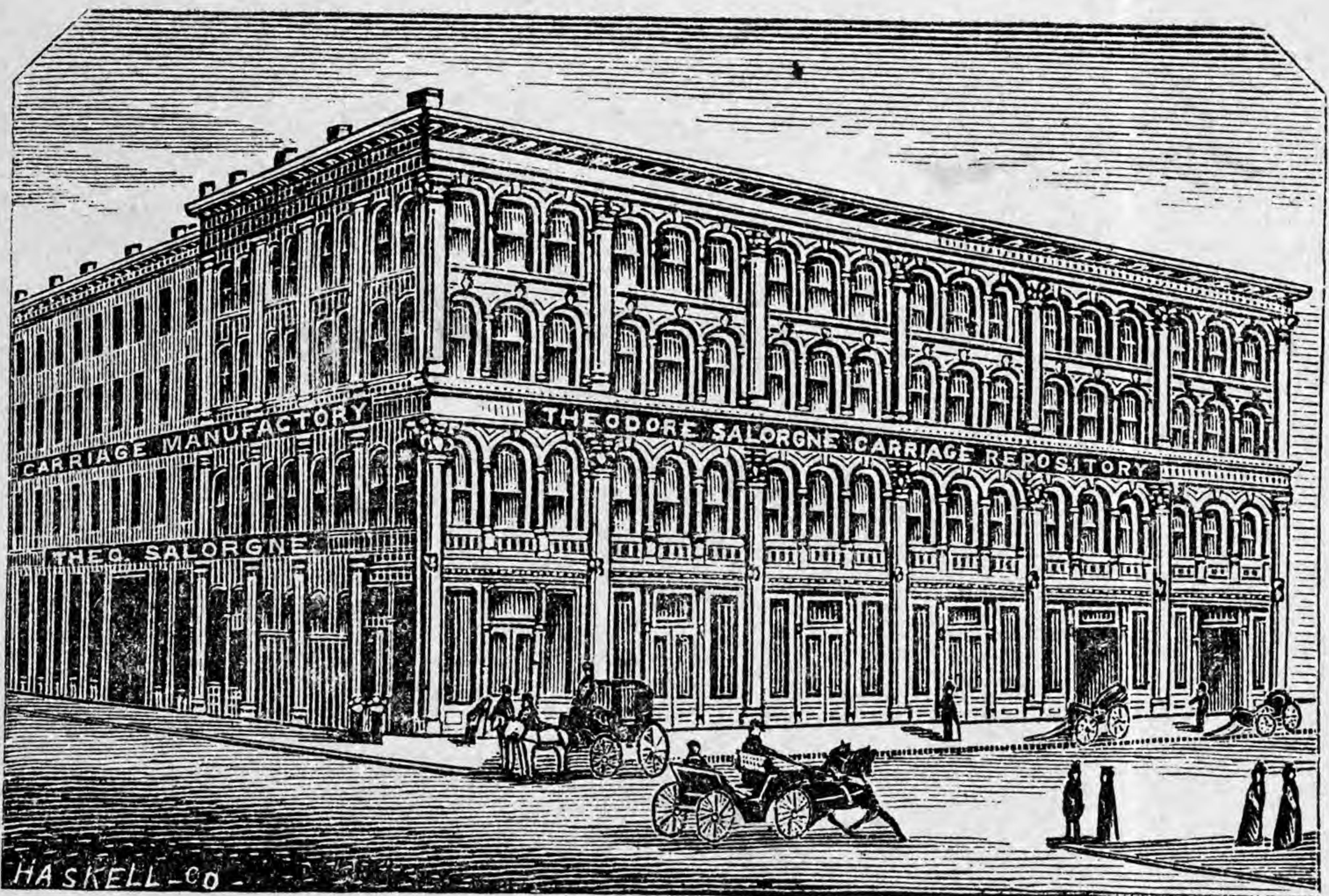


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THEODORE SALORGNE,
MANUFACTURER OF, AND DEALER IN
New and Elegant Styles of Carriages,
OF EVERY DESCRIPTION.

Corner of Eighth and St. Charles Streets,

St. Louis, Mo.

4/6 1878

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Mr Engelman
City
Kris

Your new Mr. Maetow
is all complete and ready when
you pass by please call in and
see it. Harking it will please



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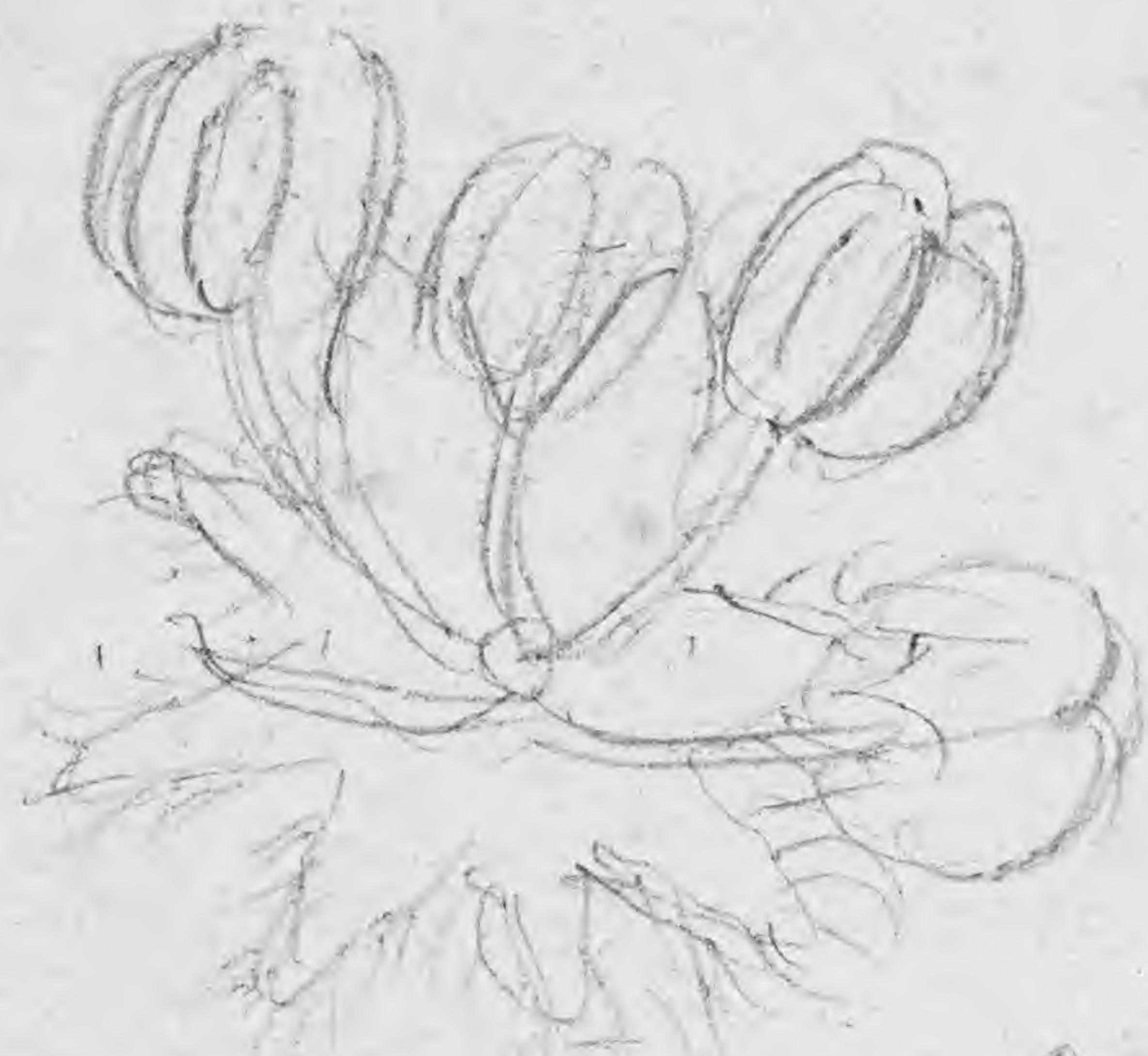
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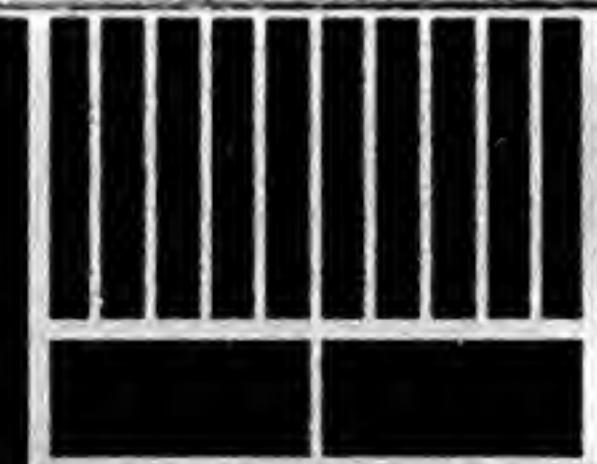


G. Cobaea
E. H. Gaynor

Aug 29 1877

8.00

calyx 8 irregular lobes
exterior lobes
about 8 tubular anthers



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cm

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BLONDY [©] BOTANICAL

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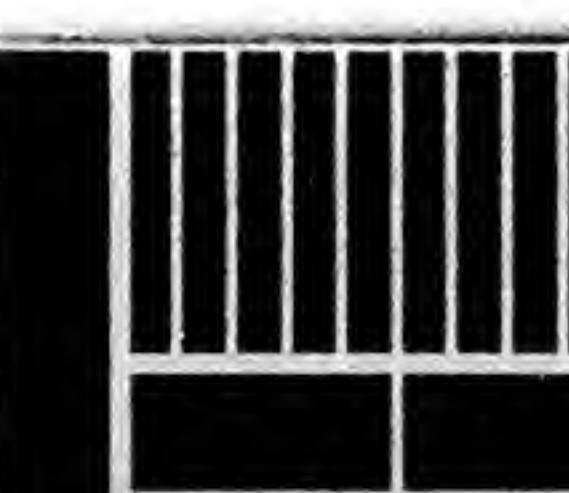
No. Date,

187

JL

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Geo. Engelmann, M. D.,

No. 3003 Locust Street.

Quercus lobata

where the cap is very knobby the shape
appendage is less distinct of the scales and the

"*Q. Hindsii*" San Francisco, Hinds' leaves 2- $\frac{3}{4}$
inches long, tapering into petiole $\frac{1}{4}$ to $\frac{1}{2}$ inch long
but cone 2 $\frac{1}{2}$ - 3 (in young buds) leaves long to mucro even at first
maturity; leaves partly glabrous, shiny, brown. - cap deep - scales
scarcely knobby, ~~broad~~, ^{obtuse} oval with an abrupt leave lower
obtuse appendage - leaves at last glabrous above, nerves mostly like
Coulter 660 the same

Fremont 23 Dec 1848 with same acorn 2'! cap more knobby - buds short and woolly $\frac{1}{4}$
leaves yet stellate puberulent above

Dodone 1854. Feather river, is probably the same leaves blunt ^{tip} & spine
Hartweg 1964

913 Kellogg & Huntington 1869 Santa Rosa

leaves of *Q. lobata*, - cap very knobby
stellate puberulent above

111 Kauthers - probably correct Fort Tejon

198 Rothrock - large tree probably (no fit)

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REPRODUCTION PAPERS



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one of my pages is 38 lines
—print
a printed page has 40 lines

in diameter, simple or with a few branches and even the oldest ones entirely covered with a shaggy coat of old withered pendant leaves. Leaves 2-2½ feet long and 1½-2½ inches wide, stiff, and sharply pungent, very frequently longitudinally folded, the narrower ones sometimes even. The edge of the young leaf is pale and usually delicately semulate towards the base; later it becomes brown and brittle, then the asperities do appear, and it is apt to crumble off or occasionally to detach itself in a few fibres like those detach themselves. The surface of the leaf is of a dull, often pale or glaucous colour and on the under side, especially ^{towards the tip} rough with small asperities. The panicles, ~~are~~ 2-4 feet long, 1-1½ feet in diameter, contracted upwards and downwards, where the flowers often spring directly from the main axis, ~~and~~ are raised above the leaves on a stalk of ^{their} own length or shorter, covered ~~base~~ with herbaceous bracts, lanceolate from a broad base, ultimate bracts of same shape, ^{small and} membranaceous; panicle often or at least the pedicels often pubescent, or nearly or quite glabrous. Flowers, as in the genus, wide open in the evening, 3½-4 inches wide, whitish, tinged externally with green or ^{or reddish} brownish green ~~green~~; segments, ovate, acute, or rarely lance-ovate, the inner longer and wider than the outer ones, minutely pubescent at tip, (which perhaps is meant by Elliott's "sparingly ciliate"). Stamens often as long as the whole pistil, or at least as long as the ovary, straight at first or only pubescent, but at last mostly recurved and variously twisted; filaments in some forms scarcely pubescent, in others strongly hispid; anthers deeply emarginate ^{at tip} upwards; stigmas narrower than the prismatic ovary and much longer.



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G. Douglasii? No 2 May 20 1876
Anderson Valley ~~1865~~ Sept
annual referring to autumnal specimen

$\times 10$



$\times 10$



as follows

very narrow lobes of calyx

Aug 29 1877



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"Prunus Sargentii?"

May 19 1894

Bolander Anderson Valley 29/965

in question whether
acorn belongs to cup

gracile toothed

leaves
large woolly buds

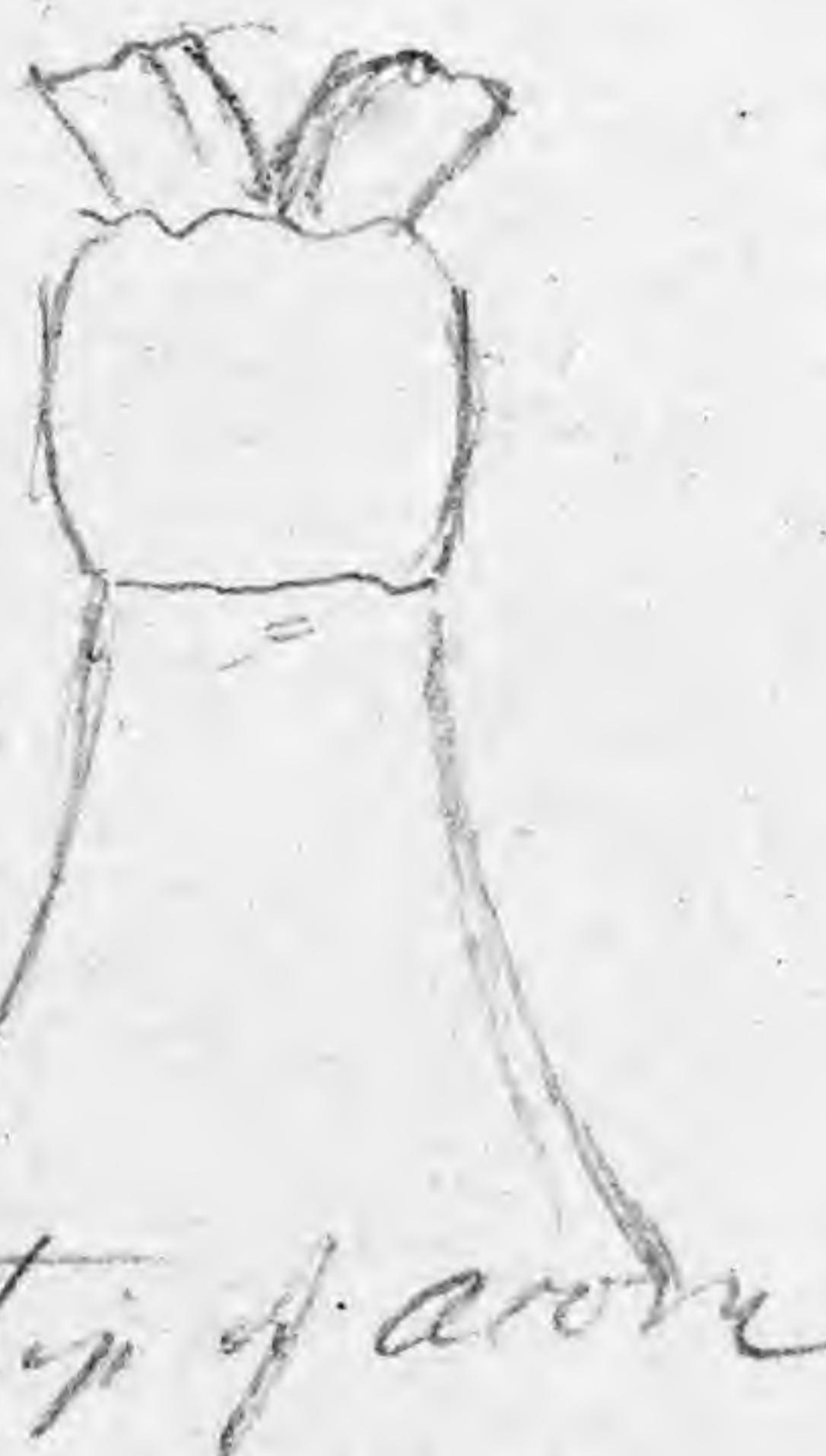


inside of cap

cup 3 diam of
attache end

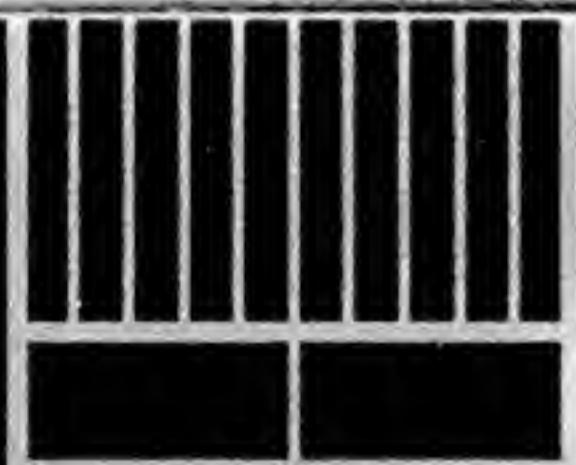


acorn 2 $\frac{1}{2}$ diam
of attach



tip of acorn

$\times 10$



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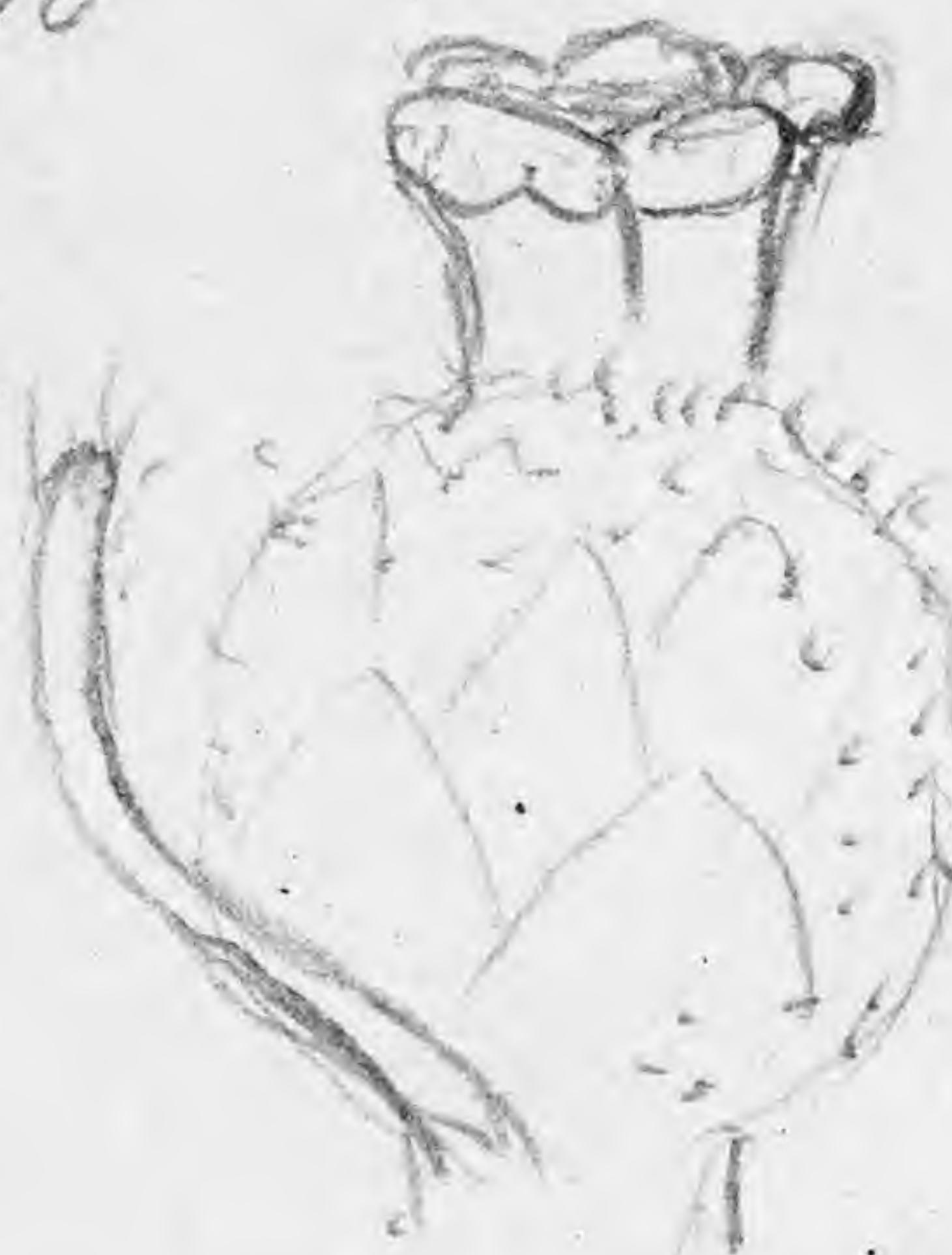
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Quercus dumosa

Bobt. Bolander
spic.

May 20 1874

x10



x10

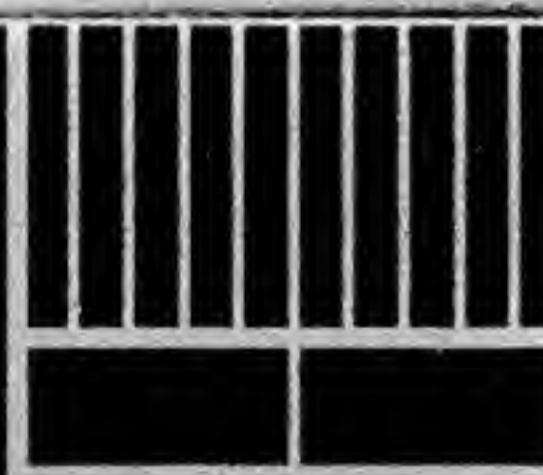


6-7 andres

x10



Soaked



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Quercus douglasii
Bolander No. 6656

May 20 1874

x10



sessile

x10



5-8 anthers

x10



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cm

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Herb Gray Feb 1878

Quercus Douglasii



Quercus Douglasii Benth. Calif. Douglas. leaves small rigid, below ^{pubescent} sinuate lobed — stem (figure) 6 — scales of ~~stems~~ — scarcely knobbed — triangular, produced, obtuse — buds ^{ov. obtuse} $\frac{1}{2}$ in long, rounded over gray, becoming glabrous

Torrey 1865 Mono Lake 482 & 482a leaves in species $2''$ — smooth only 1 inch long young buds short over woolly

Fremont 228. 1845 — flower

" 341 1846 full grown, but young, like Douglas' — woolly buds

Kellogg Stanford 911 — ripe fruit " *Q. Gumbelii* " young " lobate" ^{for Bolander}

acorns large & small leaves with small

buds of young short larger & more woolly the of smaller twigs of "



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enough merit to deserve the much more common fruit of *Y. aloifolia*. The seed which was sent to me is smaller and thinner than that of that species (5.2-6.0 mm. in the longest diameter and 1.8-2.0 mm. thick), but otherwise very similar to it. — The flowering time seems to be July to October, very often in South Carolina, ~~September & October~~ in the autumn.

The cultivated plants, which I have seen, scarcely differ from this form; their flowers are sometimes larger, and either whitish or cream-white, or very often externally greenish-purple; they seem to ~~open~~ flower usually in July and August, or, sometimes, later in the fall.

The following garden-species, of ~~not one of~~ which the native country ~~is~~ appears to be ^{is} unknown, seem to belong ^{to the typical form.} ~~species~~ forms and scarcely varieties of *Y. gloria*: *Y. acuminata*, Sweet and *Y. obliqua*, Haw.,

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The ^{variety} ~~form~~ which I have distinguished as var. *plicata* I have found under the name of *Y. plicata* in Mr. J. Thuret's gardens at Antibes near Nice, flowering in February and March; it has a naked trunk ~~of~~ over 2 feet high, with thin but stiff, much folded leaves, $1\frac{1}{2}$ - $2\frac{1}{4}$ feet long and 2- $2\frac{1}{2}$ inches wide, glaucous above, rough beneath, serrulate near the base; panicle large, flowers over 4 inches wide, externally tinged with brown red; stamens as long as ^{the} ovary which is contracted into a narrow neck, a sort of a style, ~~below~~ the thicker, divided, somewhat divaricate stigmas.

Var. *recurvifolia* is the well known and commonly cultivated, elegant garden form, said to come from Georgia, where



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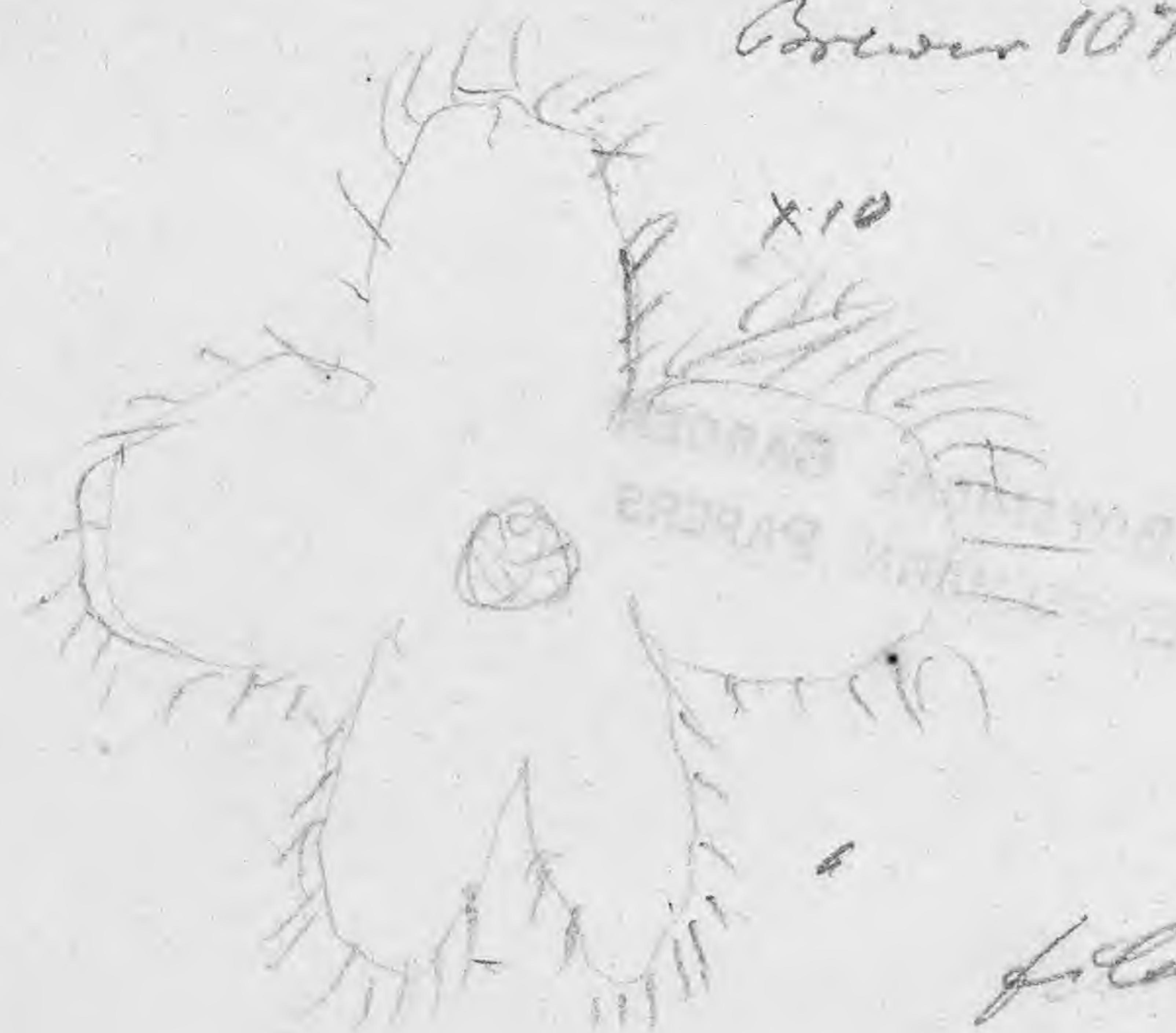


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Quinn. Douglasii

April 23 1876

Brewer 1078



x10



x10

6-8, short

effete anther, plants
only half as long as
anther -

plants not longer than
almost enclosed



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cm

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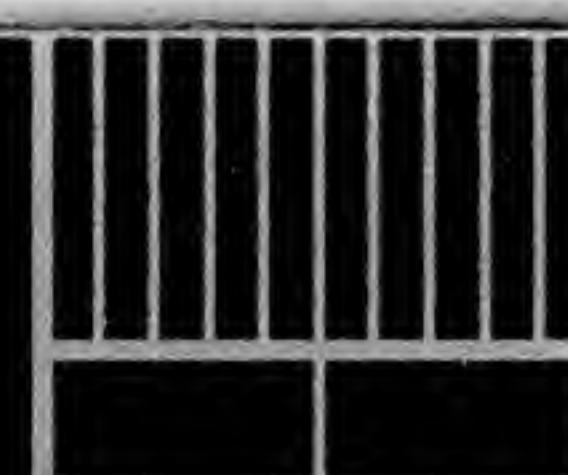


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ALEX. LEITCH,
APOTHECARY & PHARMACEUTIST,
Marble Building Cor. Fourth & Olive Sts., St. Louis, Mo.

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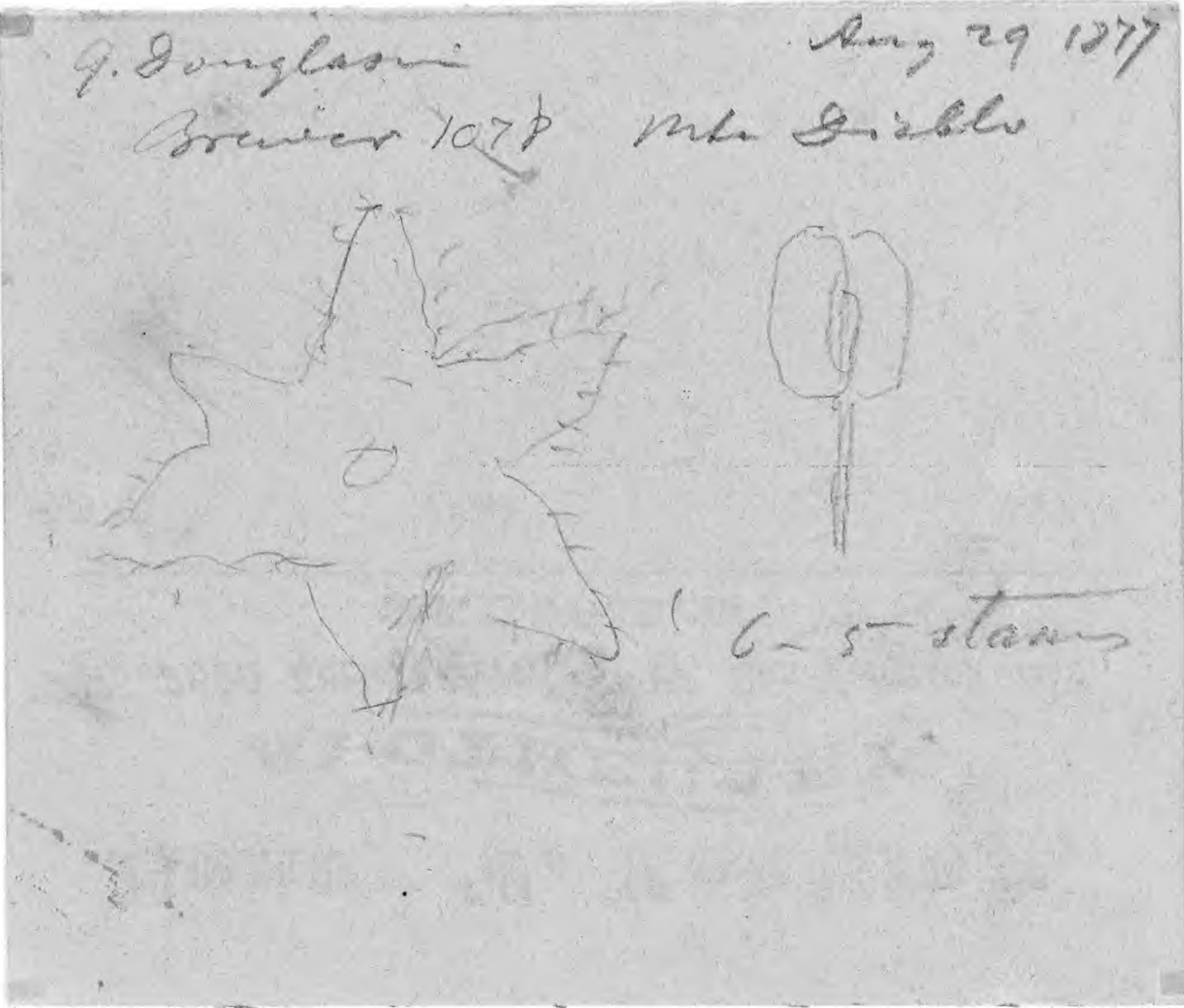


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G. Douglasii

Aug 29 1877

Brewer 1078 Mt. Grable



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2

No. 187 Date,

ST. LOUIS, MO.

No. 2600 Laclede Ave., S. W. Gor. Jefferson Ave.,

APOTHECARY

HENRY L. BOHLMAN



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Quercus dentata

May 27 1881

$\times 10$



stamen
 $\times 60$



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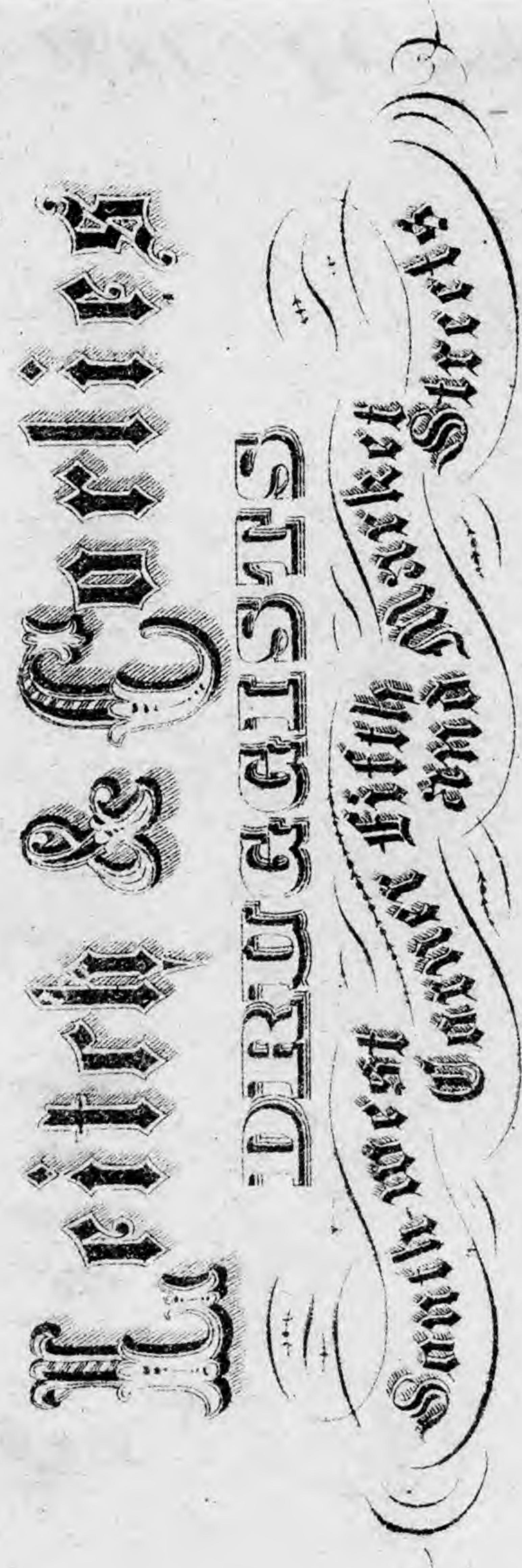
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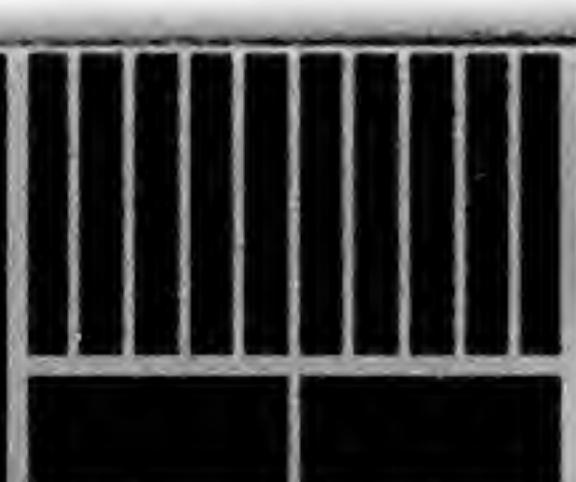


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Dr. Lindl. 2 p. 23 (1864)

Quercus douglasii Hook & Arn. Bot Beechey p. 291 (1841)

Folia membranaceis, oblongo-ovalibus, basi acutis, petiolatis, sinuato-pinnatis,
fidiis & rotundate haud nigriscentibus supra glabris, subtus pubescentibus, lobis
brevibus acutis-acute, petiolis ramulisque junioribus dense foliis
pubescentibus, fruct. sessil. capsula hemisphaerica -- squamis
ovatis convexis in appendice subaeubaracae fulvaen adpresso lineis
obtusam, productis pubescentibus.

[Locality - but apparently California]



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Adams Jan 1st 1876

~~Mrs W P Scott~~

~~to Drs Engelmann~~

~~to visits to children in July & \$10. —~~

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Juniperus Douglasii between Auburn and Sacramento common
but scattered; 50-80 feet high, 2-4 feet in diameter.



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Douglasii, undulate to
short, sessile stigmas

Arizona Palm

Colorado Green

Tendler 805

Calif. Bolander 606

— 606!

— Anderson Valley

Utah Parry

large anthers 1.2"

small anther

" "

all small anth

small anth

" "

" "

style distinct.

Tendler 806

Calif. Bolander 606

606

6257

large anth.

small anth

large style 0.9-1.0"

Bolander 606, 6056

606!

Green Colorado

Tendler 805

Palm Arizona



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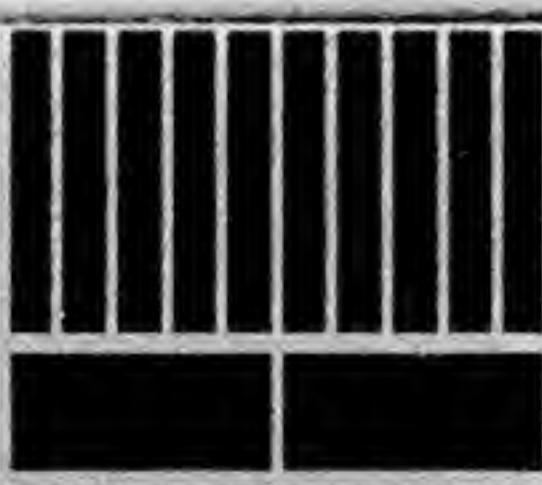
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